

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A radio terminal ~~device~~ for use in a radio system for ~~carrying out data transfer~~ transferring data between the radio terminal and another radio terminal after establishing a logical connection between the radio terminal and the another radio terminal ~~radio terminals prior to data transfer between radio terminals~~, the radio terminal ~~device~~ comprising:

a logical channel set up unit configured to set up at least one first logical channel ~~for transfer of~~ to transfer data packets containing at least one AV stream, ~~and acquire information regarding to identify~~ at least one second logical channel, ~~the at least one second logical channel being set up by the another radio terminal to transfer the data packets, for the transfer of the data packets at a correspondent radio terminal, and~~ to set up at least one third logical channel ~~for transfer of~~ to transfer a first set of control packets containing first control information regarding transfer of the data packets, ~~and acquire information regarding to identify~~ at least one fourth logical channel to transfer a second set of control packets containing second control information regarding transfer of the data packets, ~~the at least one fourth logical channel being set up by the another radio terminal for the transfer of the control packets at the correspondent radio terminal;~~

a memory unit configured to store a correspondence information including a correspondence between the at least one first logical channel and the at least one second logical channel for the at least one AV stream[[,]] and a correspondence between the at least one third logical channel and the at least one fourth logical channel for the first and second control information; and

a packet transmission/reception unit configured to ~~transmit/receive~~ transfer the data packets and the first set and second set of control packets to/from between the radio terminal and the another correspondent radio terminal by using the correspondence information.

Claim 2 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the ~~data packets contain~~ at least one AV stream includes a single AV stream or one AV stream in which a plurality of single streams are multiplexed, the logical channel set up unit sets up one first logical channel with respect to the single AV stream or the one AV stream, ~~and acquires information regarding~~ identifies one second logical channel set up by the another radio terminal with respect to the single AV stream or the one AV stream, ~~and~~ sets up one third logical channel with respect to the single AV stream or the one AV stream, ~~and acquires information regarding~~ identifies one fourth logical channel set up by the another radio terminal with respect to the single AV stream or the one AV stream.

Claim 3 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the ~~data packets contain~~ at least one AV stream includes a plurality of AV streams belonging to one AV application, and the logical channel set up unit sets up one first logical channel with respect to each one of the plurality of AV streams separately and ~~acquires information regarding~~ identifies one second logical channel set up by the another radio terminal with respect to each one of the plurality of AV streams separately.

Claim 4 (Currently Amended): The radio terminal ~~device~~ of claim 3, wherein the logical channel set up unit sets up one third logical channel with respect to the plurality of AV streams and ~~acquires information regarding~~ identifies one fourth logical channel set up by the another radio terminal with respect to the plurality of AV streams.

Claim 5 (Currently Amended): The radio terminal ~~device~~ of claim 3, wherein the logical channel set up unit sets up one third logical channel with respect to each one of the plurality of AV streams separately and ~~acquires information regarding~~ identifies one fourth logical channel set up by the another radio terminal with respect to each one of the plurality of AV streams separately.

Claim 6 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the packet transmission/reception unit transmits the data packets by using the at least one second logical channel ~~obtained by referring to the correspondence information~~.

Claim 7 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the packet transmission/reception unit transmits the second set of control packets by using the at least one fourth logical channel ~~obtained by referring to the correspondence information~~.

Claim 8 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the packet transmission/reception unit receives the first set of control packets from the ~~correspondent~~ another radio terminal by using the at least one third logical channel.

Claim 9 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the logical channel set up unit transmits a first connection request containing a first channel identifier for identifying the at least one first logical channel set up at by the radio terminal ~~device~~ to the ~~correspondent~~ another radio terminal, and then receives a first connection response containing a second channel identifier for identifying the at least one second logical

channel set up at ~~by the correspondent~~ another radio terminal in response to the first connection request, and

the logical channel set up unit transmits a second connection request containing a third channel identifier for identifying the at least one third logical channel set up ~~at~~ by the radio terminal ~~device~~ to the ~~correspondent~~ another radio terminal, and then receives a second connection response containing a fourth channel identifier for identifying the at least one fourth logical channel set up at ~~by the correspondent~~ another radio terminal in response to the second connection request.

Claim 10 (Currently Amended): The radio terminal ~~device~~ of claim 9, wherein the logical channel set up unit ~~acquires the information regarding~~ identifies the at least one second logical channel ~~from~~ based on the first connection response and ~~the information regarding~~ the at least one fourth logical channel ~~from~~ based on the second connection response, and ~~registers~~ stores the correspondence ~~identified~~ information ~~into~~ on the memory unit according to ~~the information regarding~~ the second logical channel and ~~the information regarding~~ the fourth logical channel ~~as acquired~~.

Claim 11 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the logical channel set up unit sets up the at least one first logical channel and the at least one third logical channel collectively, and then transmits a connection request containing first information ~~for specifying a group of channel identifiers~~ for identifying the at least one first logical channel and the at least one third logical channel set up ~~at~~ by the radio terminal ~~device~~ to the ~~correspondent~~ another radio terminal.

Claim 12 (Currently Amended): The radio terminal ~~device~~ of claim 11, wherein the logical channel set up unit receives a connection response containing second information ~~for specifying a group of channel identifiers~~ for identifying the at least one second logical channel and the at least one fourth logical channel set up ~~at by the correspondent~~ another radio terminal in response to the connection request.

Claim 13 (Currently Amended): The radio terminal ~~device~~ of claim 12, wherein the logical channel set up unit ~~acquires the information regarding the second logical channel and the information regarding the fourth logical channel from the information for specifying the group of identifiers as obtained in the connection response, and registers~~ stores the correspondence information ~~into~~ on the memory unit according to the second information ~~regarding~~ for identifying the at least one second logical channel and ~~the information regarding~~ the at least one fourth logical channel set up at by the another radio terminal as acquired.

Claim 14 (Currently Amended): The radio terminal ~~device~~ of claim 11, wherein the first information ~~for specifying the group of identifiers~~ indicates a prescribed parameter value and a group of functions for generating a prescribed number of channel identifiers from the prescribed parameter value.

Claim 15 (Currently Amended): The radio terminal ~~device~~ of claim 14, wherein the group of functions generates the prescribed number of channel identifiers in forms of consecutive channel numbers.

Claim 16 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the logical channel set up unit notifies information ~~for specifying a group of channel identifiers~~ for

identifying the at least one first logical channel and the at least one third logical channel to the ~~correspondent~~ another radio terminal and then sets up the at least one first logical channel and the at least one third logical channel collectively.

Claim 17 (Currently Amended): The radio terminal ~~device~~ of claim 1, further comprising a notification unit configured to notify the correspondence information stored in the memory unit to the ~~correspondent~~ another radio terminal.

Claim 18 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the logical channel set up unit receives a first connection request containing a first channel identifier for identifying the at least one second logical channel set up at by the another ~~correspondent~~ radio terminal from the ~~correspondent~~ another radio terminal[[.]] and then transmits a first connection response containing a second channel identifier for identifying the at least one first logical channel set up at the radio terminal ~~device~~ to the ~~correspondent~~ another radio terminal in response to the first connection request; and

the logical channel set up unit receives a second connection request containing a third channel identifier for identifying the at least one fourth logical channel set up at by the ~~correspondent~~ another radio terminal from the ~~correspondent~~ another radio terminal, and then transmits a second connection response containing a fourth channel identifier for identifying the at least one third logical channel set up at by the radio terminal ~~device~~ to the ~~correspondent~~ another radio terminal in response to the second connection request.

Claim 19 (Currently Amended): The radio terminal ~~device~~ of claim 18, wherein the logical channel set up unit ~~acquires the information regarding the second logical channel from the first connection request and the information regarding the fourth logical channel from the~~

~~second connection request, and registers~~ stores the correspondence information ~~into~~ on the memory unit according to the first, second, third, and fourth channel identifiers ~~information~~ regarding the ~~second logical channel and the information regarding the fourth logical channel~~ as acquired.

Claim 20 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the logical channel set up unit receives ~~a notification of information for specifying a group of channel identifiers~~ for identifying the ~~first~~ at least one second logical channel and the ~~third~~ at least one fourth logical channel from the ~~correspondent~~ another radio terminal and then sets up the ~~second~~ at least one first logical channel and the ~~fourth~~ at least one third logical channel collectively.

Claim 21 (Currently Amended): The radio terminal ~~device~~ of claim 1, further comprising a notification reception unit configured to receive a notification of the second correspondence information obtained at the ~~correspondent~~ another radio terminal from the ~~correspondent~~ another radio terminal and to ~~register~~ store the second correspondence information ~~into~~ on the memory unit according to the notification.

Claim 22 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the radio system is Bluetooth and the ~~logical channel set up unit sets up and acquires information on logical channels which~~ at least first logical, at least second logical, at least third logical, and at least fourth logical channels are LSCAP channels.

Claim 23 (Currently Amended): The radio terminal ~~device~~ of claim 1, wherein the at least one AV stream is given by data according to an RTP protocol and the first and second control information is given by data according to an RTCP protocol.

Claim 24 (Currently Amended): A ~~data transfer~~ method in a radio system for carrying out data transfer between a radio terminal and another radio terminal after establishing a logical connection between ~~radio terminals~~ the radio terminal and the another radio terminal, ~~prior to data transfer between radio terminals~~. the method comprising the steps of:

setting up at least one first logical channel for ~~transfer of~~ transferring data packets containing at least one AV stream; ~~and acquiring information regarding~~

identifying at least one second logical channel set up by the another radio terminal for ~~the transfer of~~ transferring the data packets; ~~at a correspondent radio terminal, and~~

setting up at least one third logical channel for ~~transfer of~~ transferring a first set of control packets containing first control information regarding transfer of the data packets; ~~and acquiring information regarding~~

identifying at least one fourth logical channel set up by the another radio terminal for the transfer of ~~the~~ a second set of control packets containing second control information regarding transfer of the data packets ~~at the correspondent radio terminal;~~

storing a correspondence information including a correspondence between the at least one first logical channel and the at least one second logical channel for the at least one AV stream[,] and a correspondence between the at least one third logical channel and the at least one fourth logical channel for the first and second control information; and

transmitting/receiving the data packets and the first set and second set of control packets ~~to/from~~ between the radio terminal and the correspondent another radio terminal by using the correspondence information.

Claim 25 (Currently Amended): A computer usable medium having computer readable program codes embodied therein for causing a computer to function as a radio terminal device for use in a radio system for carrying out data transfer between the computer and another radio terminal after establishing a logical connection between the computer and the another radio terminal ~~radio terminals prior to data transfer between radio terminals~~, the computer readable program codes include:

a first computer readable program code for causing said computer to set up at least one first logical channel ~~for transfer of~~ to transfer data packets containing at least one AV stream, ~~and acquire information regarding~~ to identify at least one second logical channel set up by the another radio terminal ~~for the transfer of~~ to transfer the data packets ~~at a correspondent radio terminal~~, and to set up at least one third logical channel ~~for transfer of~~ to transfer a first set of control packets containing first control information regarding transfer of the data packets, and ~~acquire information regarding~~ to identify at least one fourth logical channel set up by the another radio terminal ~~for the transfer of the~~ to transfer a second set of control packets containing second control information regarding transfer of the data packets ~~at the correspondent radio terminal~~;

a second computer readable program code for causing said computer to store a correspondence information including a correspondence between the at least one first logical channel and the at least one second logical channel for the at least one AV stream[[,]] and a correspondence between the at least one third logical channel and the at least one fourth logical channel for the first and second control information; and

a third computer readable program code for causing said computer to transmit/receive the data packets and the first set and second set of control packets ~~to/from~~ between the radio

Application No. 09/748,018
Reply to Office Action of July 19, 2004

terminal and the ~~correspondent~~ another radio terminal by using the correspondence information.